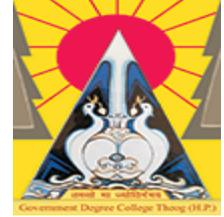




Department of Chemistry Government College Theog



Report on Flipped Classroom Activities for B.Sc. Chemistry Students (Session 2024–25)

Faculty: Dr. Vikas Nathan, Assistant Professor of Chemistry

Objectives

- To facilitate active learning through pre-class preparation and in-class activities.
- To improve comprehension of intricate topics in chemistry.
- To develop critical thinking and collaborative skills among students.

Topics for B.Sc. 1st Year included:

- Covalent Bonding
- Basics of Organic Chemistry

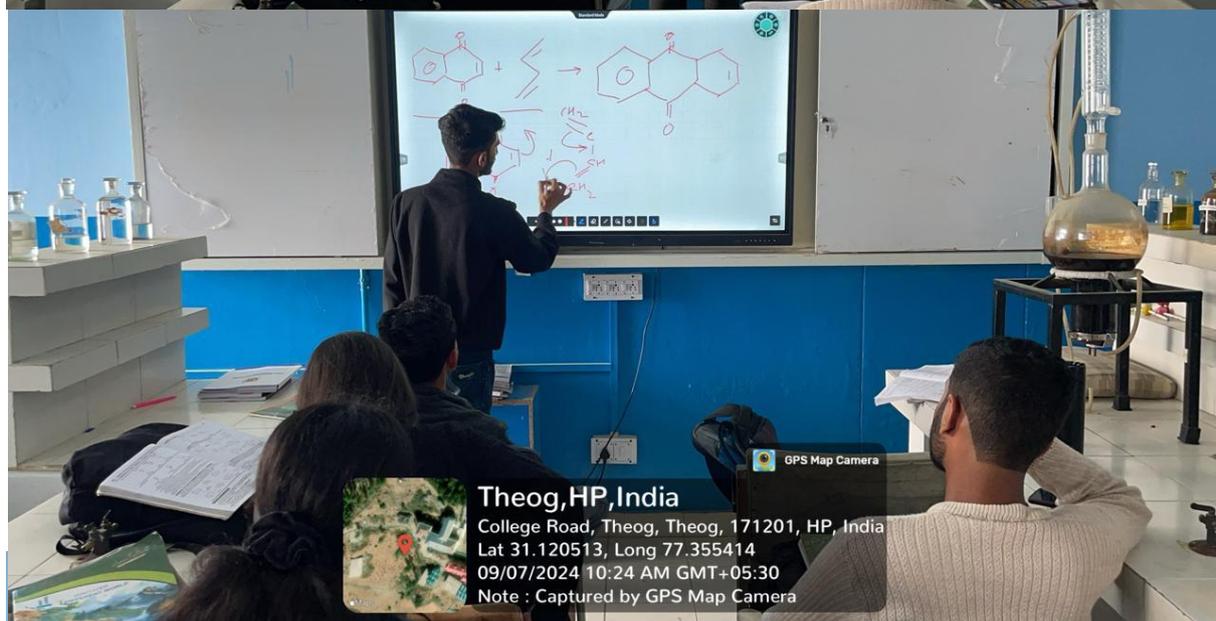
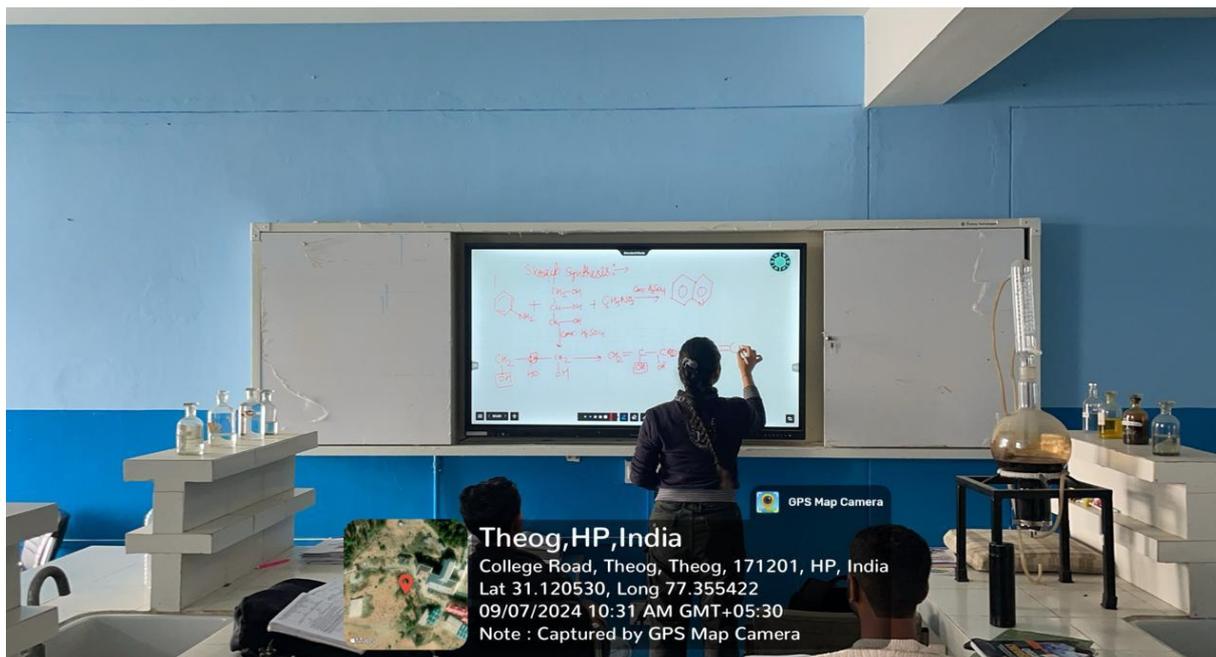
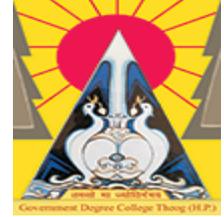
Topics for B.Sc. 3rd Year included:

- Polynuclear Hydrocarbons
- Heterocyclic Compounds

During the academic session 2024–25, a flipped classroom activity was successfully conducted for B.Sc. 1st and 3rd-year Chemistry students under the guidance of Dr. Vikas Nathan, Assistant Professor of Chemistry. The activity aimed to promote active learning and strengthen conceptual understanding by encouraging students to prepare through pre-class study materials and video lectures. For B.Sc. 1st year students, the topics covered were Covalent Bonding and Basics of Organic Chemistry, while B.Sc. 3rd year students explored Polynuclear Hydrocarbons and Heterocyclic Compounds. In the classroom, students engaged in lively discussions, collaborative problem-solving, and critically analyzed the content through peer interaction. A key highlight of the activity was student presentations on subtopics, followed by in-depth discussions with their peers and the teacher, which not only reinforced learning but also built confidence and communication skills. The flipped classroom approach proved effective in enhancing engagement, conceptual clarity, and active participation among students.



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